Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claim 1 (previously presented): A method for preparing an article of manufacture comprising a stent and a coating disposed thereon, the coating comprising a first layer and a second layer, the first layer comprising a polymer film with a biologically active agent dispersed therein, and the second layer comprising an antithrombogenic heparinized polymer comprising a macromolecule, a hydrophobic material, and heparin bound together with covalent bonds, the method comprising:

cleaning the stent with a washing agent,

preparing the first layer by combining the polymer and biologically active agent with a solvent, thereby forming a polymer and biologically active agent mixture and applying the mixture to the stent,

preparing the second layer by combining the hydrophobic heparinized polymer with a solvent and applying the second layer by immersing the stent in the hydrophobic heparinized polymer and solvent solution and then drying the stent.

Claim 2 (original): The method of claim 1 further comprising adding a second biologically active agent to the polymer and biologically active agent mixture.

Claim 3 (original): The method of claim 1 wherein applying the first layer coating comprises dipping the stent into the polymer and biologically active agent mixture.

Claim 4 (original): The method of claim 1 wherein applying the first layer coating comprises spraying the polymer and biologically active agent mixture onto the stent.

Claim 5 (previously presented): A method for preventing burst release of a biologically active agent dispersed in a thin film polymer layer on a stent comprising applying a second layer over the thin film polymer layer; said second layer being comprised of a hydrophobic heparinized polymer comprising a macromolecule, a hydrophobic material, and heparin bound together by covalent bonds.

Claim 6 (previously presented): A method for inhibiting thrombosis in a medical device having a surface in contact with an organic fluid comprising coating the surface of the medical device with an antithrombogenic heparinized polymer layer

comprising a macromolecule, a hydrophobic material, and heparin bound together by covalent bonds.

Claim 7 (original): The method of claim 6 further comprising applying a lowermost coating, said lowermost coating disposed under the hydrophobic heparinized polymer layer and comprising an polymer having a biologically active agent dispersed therein.

Claim 8 (previously presented): The method of claim 1 wherein the polymer film is selected from polyurethanes, polyethylene terephthalate, PLLA-poly-glycolic acid (PGA) copolymer (PLGA), polycaprolactone, poly-(hydroxybutyrate/hydroxyvalerate) copolymer, poly(vinylpyrrolidone).polytetrafluoroethylene, poly(2-hydroxyethylmethacrylate), poly(etherurethane urea), silicones, acrylics, epoxides, polyesters, urethanes, parlenes, polyphosphazene polymers, fluoropolymers, polyamides, polyolefins, and mixtures thereof.

Claim 9 (previously presented): The method of claim 1 wherein the biologically active agent dispersed in the first layer is selected from antithrombotics, anticoagulants, antiplatelet agents, thrombolytics, antiproliferatives, anticancer drugs, antiinflammatory drugs, agents that inhibit

restenosis, smooth muscle cell inhibitors, antibiotics, and mixtures thereof.

Claim 10 (previously presented): The method of claim 1 wherein the first layer comprises a second biologically active agent dispersed therein.

Claim 11 (previously presented): The method of claim 1 wherein the macromolecule is selected from synthetic macromolecules, proteins, biopolymers, and mixtures thereof.

Claim 12 (previously presented): The method of claim 11 wherein the synthetic macromolecules are selected from polydienes, polyalkenes, polyacetylenes, polyacrylic acid and its derivatives, poly α- substituted acrylic acid and its derivatives, polyvinyl ethers, polyvinyl alcohol, polyvinyl halides, polystyrene and its derivatives, polyoxides, polyethers, polyesters, polycarbonates, polyamides, polyamino acids, polyureas, polyurethanes, polyimines, polysulfides, polyphosphates, polysiloxanes, polysilsesquioxanes, polyheterocyclics, cellulose and its derivatives, and their copolymers and derivatives.

Claim 13 (previously presented): The method of claim 11 wherein the proteins are selected from protamine, polylysine, polyaspartic acid, polyglutamic acid and their derivatives and copolymers.

Claim 14 (previously presented): The method of claim 11 wherein the biopolymers are selected from polysaccharides, gelatin, collagen, alginate, hyalunic acid, alginic acid, carrageenan, chondroitin, pectin, chitosan, and their derivatives and copolymers.

Claim 15 (previously presented): The method of claim 1 wherein the hydrophobic material is selected from octadecylamine, alkanoic amine, bile acids, sterols, alkanoic acids and mixtures thereof.

Claim 16 (previously presented): The method of claim 1 wherein the heparin is selected from recombinant heparin, heparin derivatives, and heparin analogues.